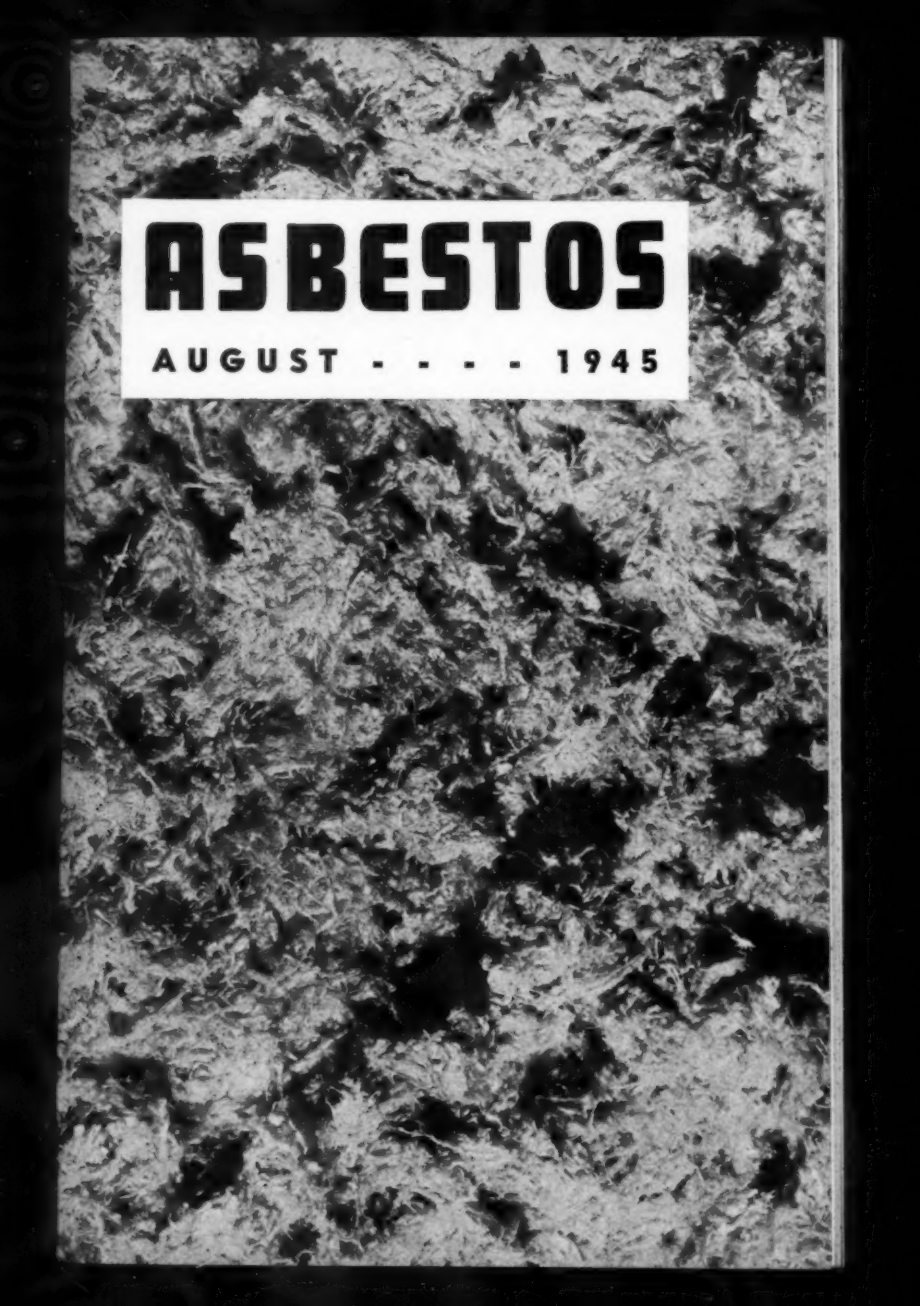
ASBESTOS
AUGUST - - - - 1945

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FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE

BY SECRETARIAL SERVICE
17th FLOOR INQUIRER BUILDING
PHILADELPHIA, 30, PENNSYLVANIA

Estate of C. J. STOVER, *Proprietor*
A. S. ROSSITER, *Editor*
E. E. COX, *Circulation Manager*

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NATURE'S LAWS

Not long ago we heard a remark to the effect that nature's laws are adamant and when one ran into them it was necessary to "go around them" or surmount them, because they could not be changed by man.

If we could change nature's laws, as to heat and cold, for instance, there would be no insulation problems. We could make heat stay in pipes of steel, and insulation would no longer be necessary; we could keep brakes from burning out their lining and so use cotton or any other fibre or substance for the lining of brakes and clutches, or perhaps no lining at all. We could in fact do many things without the use of various asbestos products.

Instead man has found, for instance, certain materials, generally asbestos materials, which, when placed around the steel pipe, keeps the heat in and at the same time prevents danger from that heat turning into fire. Tho taken as a matter of course today, years ago it constituted a major engineering problem and the higher the temperatures the bigger the problem.

Man has in the past hundred years discovered much on the subject of insulation. He will discover much more in the next ten years, we feel safe in saying, than he has in the last fifty. We cannot change the natural law which results in heat leaking from pipes, but we can circumvent it. There is much of this "circumvention" to be done. Research laboratories are working on it; inventive man is working on it. Without doubt we shall see a vast amount of real discovery in the insulation line during the next few years; inventions which will make the advance from carpet and cow manure as insulating materials to asbestos and magnesia, look trivial indeed.

Science is power; it has developed mighty things within the past few years. The announcement of the atomic bomb was astounding even though it has been the dream of scientists for years. Rightly handled the discoveries can be of benefit to mankind; wrongly hand-

led or falling into vengeful hands, what havoc can they not evoke!

The world has progressed tremendously in the past five years. It will set a much faster pace in the next five. The present generation and the coming one have an enormous responsibility facing them. Unless they realize the fearful importance of this trust the world is on its way to self-destruction.

ARTICLE ON MILLING

In September we shall begin the publication of a three part article on the Milling of Asbestos. The article has been written as a companion piece to Asbestos Mining Methods, and reprints will be made.

The author of the article is a man who has made a special study of asbestos fibres, and probably knows more about the uses for which various grades, qualities and types of asbestos are suitable than anyone else in the United States. He has written in a very readable manner, and while the various phases of asbestos milling are accurately and fully described, it will be easily understood by laymen. A typical mill flow sheet will be given and other illustrations which will serve to explain the milling processes.

Reprints will probably be available around the first of the year, and will be a real addition to asbestos literature.

WRITE!--WHY NOT?

There are among our readers, we feel quite certain, men who have a flair for writing on technical or non-technical subjects, and who by their connection with asbestos firms, are in position to know of interesting developments, happenings, stories, concerning asbestos products. An instance perhaps of asbestos material of some sort being peculiarly fitted for a certain function; or of some asbestos product serving in a special way, or standing unharmed by shock, fire, flood, chemicals, or what have you. We pay for such articles. Write for further data or send in an article as a tryout.

AMOSITE MINES, SOUTH AFRICA

Editor's Note: This report on the Amosite Mines of Egnep, Limited (owned by Cape Asbestos Company, Limited) was sent us by the latter company. We feel sure our readers will find it of much interest.

The Egnep, Limited's amosite mines are at and near Penge, the Company town, in Eastern Transvaal, at 24° 25′ South, 30° 25′ East. The property is alongside the Oliphants River, at an elevation of about 2,000 feet.

Passenger travel is via Lydenburg whence it is 68 miles along the Lydenburg-Pietersburg highway, a good (dirt) auto road which can be negotiated comfortably in two hours and fifteen minutes. Freight is via Burgersfort, which is twenty-six miles from the mines, over a good (dirt) auto road. There are rainy seasons but only occasional and short interruption to traffic, road maintenance being continuous.

As to climate, the summers are very warm, but with a degree of relief at night; winter is very fine with only a semi-occasional frost.

The town of Penge is in something of a hollow amidst mountains and cliffs rising to a thousand or more feet about it. It is not exactly a hollow because to the east the vista opens wide along the valley of the Oliphants River, a fairly large stream. The hills are covered with verdure, a few fine trees, the whole presenting a picturesque, livable setting which at some seasons of the year is green and beautiful. Here the Company has many attractive homes for the white employes; the natives have both married and single quarters of the usual rondavel design.

Geological Occurrence. The asbestos occurs in sedimentary beds of which the lowest member is a dolomite some four thousand feet thick. On top of this are several thousands of feet of shales, slates and quartzites. It is in one particular horizon amidst these shales, slates and quartzites that the bands of amosite are located. They persist thru several thousands of feet of length, are remarkably continuous for stretches (of a thousand or more feet) separated by lengths along the strike direction where the

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asbestos does not exist or has not been found because the zone does not outcrop, or is blinded. These asbestos measures are usually uniform as to thickness, tho there are variations ,of course. The depth, down the slope, from the outcrop, to which the asbestos persists, has not yet been determined. The slope of the beds is about 18° from the horizontal, rising towards the river, and the topography resulting from streams tributary to the Oliphants River coursing at a right angle to the strike of the asbestos outcrop, is a series of hills on which the asbestos measures outcrop. This lends admirably to the use of strike-adits for entry, with successions of overhand stopings. Along this outcrop the Company has four mines; the Amosa, the Penge, the Kromellenboog and the Malips. The first two adjoin, and at that point is the town of Penge and the main milling works. Kromellenboog is about 8 miles (airline) along the strike direction, to the southeast; Malips is some 25 miles away to the northwest. Each has its own milling and housing facilities. All these are on amosite (the Company's chrysotile mines are not discussed in this report.)

The bands of asbestos, an average section, not to scale, are about as follows:

Upper Band: 42 inches, of which about 14% is asbestos in 3 streaks (totalling 6 inches) one of which is about 3" wide; 72 inches is waste.

Main Band: 60 inches, of which about 25% is asbestos in 3 streaks (totalling 15 inches) one of which is 7 inches wide; 108 inches is waste.

Lower Band: 30 inches, of which about 11% is asbestos in 3 streaks (totalling 3½%).

Grades. B-1 is the 7 inch streak from the Main Band, from those portions of the vein which are far enough away from the outcrop to have none of the discoloring from surface oxidization. B-1 is white, almost blue white.

No. 3 includes 3-B and 3-D, which are the same physically. They carry different designations because the Penge and Amosa mines, which adjoin, are located on two adjoining farms, the dividing boundary of which is not identical

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with the mines, so for royalty purposes the production from each farm must be kept separate. The "3" of the 3-B and 3-D implies that the material comes from the long fibre band, i. e., the 7", but is discolored by oxidization to a light brown; this is the difference between it and the B-1, above described, all of which comes from the Penge mine.

3-DM1 is almost straight 3-D. The distinction between No. 3 and 3-DM1 lies principally in the fact that the latter is not pinpointed.

M-1 is the designation applied to what might well be described as general run of mine material. It is a blending of the output from the various bands after the segregation of the grades referred to above.

B-2. This grade is no longer produced. It is the transitional between B-1 and No. 3, in that it is the same long fibre but is lightly oxidized and hence slightly discolored; It is cream colored instead of the white of B-1 or the brown of No. 3.

Mining. The mine was first opened by adit levels on the Main Band; later, when such depth had been reached that topography prevented the succeeding level to be opened from the surface, ordinary levels were driven from an internal shaft. From the adits and levels the asbestos is stoped overhand. Only the Upper and Main Bands have been mined up to the present time. The Upper Band material is dropped down to the Haulage ways (on the Main Band) thru the short raises which penetrate the six feet of water which separates the two Bands, these raises being lipped with chute-gates.

To mine out the asbestos of a Band, the entire band is knocked down, the drill-holes being placed in the waste between the seams of asbestos. The coarse waste created by the blasting is hand sorted in the stopes, the waste being left behind for fill. The asbestos and waste-fines go out to the milling plants. Most of the drilling is by hand but machine drills at work recently are proving extremely advantageous in the unoxidized area, where the rock is hard, but so far has not been entirely successful in the soft (oxidized) areas; however, experimentation continues.

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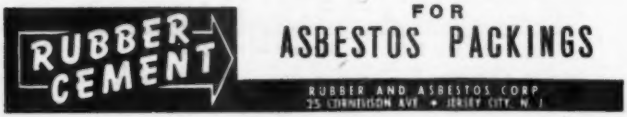
Milling. The "ore" from the mine is dumped alongside the track and is hand sorted to remove a very large percentage of the waste remaining after the underground coarse sorting. The mill is in four sections enabling the various grades of output to be treated separately but in each section the treatment is practically similar. From the preliminary treatment thru coarse crusher, the greatest care is exercised in freeing and eliminating waste by means of sorting belts (to discard by hand), trommels, shaking tables and hammer mill. The final process consists in passing the amosite thru a "pinpointer" in the case of those products (e. g. M1) which require blending or more complete fiberisation. No. 3 may or may not be pinpointed according to customers' individual wishes.

Bagging. The bags are heavy, close woven, jute, about 27 in. wide by about 45 in. long. The asbestos is tamped into them until they hold exactly 200 lbs.

History. The Penge-Amosa deposit was discovered by two traders about 1904. In 1907 Dr. A. L. Hall of the South African Geological Survey visited the region and wrote it into the Survey's literature. In 1917 a syndicate of Cape Town men started work at the deposit but they had a great deal of trouble introducing the product because it was the first time amosite had appeared on the market. In 1926 the Cape Asbestos Company (which originated in Kimberley in 1893) bought out the syndicate and started production, which they were better equipped to market because their name was well known as a consequence of their years of experience in the asbestos business. The operating company, Egnep, Limited, (registered in South Africa) was reconstituted with an issued capital increased to £240,000 and it is under this company's management that operations are carried out today.



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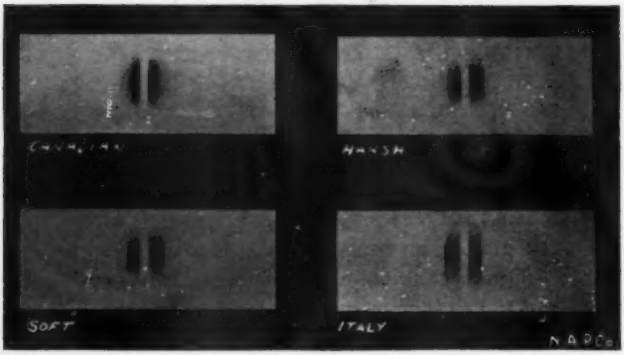
X-RAY SOLVES ASBESTOS PROBLEM

By J. S. Buhler[1]

A new low-angle scatter camera has been developed which permits the analysis of materials of sub-microscopic particle size with geometrical discontinuities of the order of 20 to 1200 Å. The camera records X-ray scattering at angles within five minutes of the central beam.

Low angle scattering studies can differentiate various types of asbestos. As shown in the four diffraction patterns, asbestos fibres (chrysotile) from different localities can have widely different physical properties—variations often unpredictable thru chemical analysis. These physical properties can be correlated with a study of the



X-Ray Diffraction Patterns of Asbestos Specimens

fundamental fibres whose diameters, computed from the Bragg spacings, vary with the type of asbestos.

Technical progress in industry has reached a point where knowledge of the structure of a given material is important. Identification or classification of raw materials, phase analyses in chemical processes, detection of the presence or absence, or evaluating of the degree of preferred orientation in metals or fibres, determination of

[1] North American Philips Co., Inc., New York City.

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particle size of fine materials—such as catalysts, carbon blacks, rubber fillers and other substances, the goniometric relations of crystals, and a host of other problems can be attacked by the use of X-ray diffraction equipment.

Camera Developed by The North American Philips Company

The new X-ray-diffraction unit has a four - windowed tube enclosed in a substantial bronze housing. Diffraction patterns of four different specimens can be obtained simultaneously. A number of interchangeable X-ray tubes are available with targets of tungsten, molybdenum, iron, chromium and copper. Tubes can be changed quickly for different techniques, usually in less than five minutes, using a screwdriver.

Shockproof and rayproof, the unit utilizes full wave rectification which permits higher output and longer life from the tube. Filament current supply is stabilized, control of kilovoltage and milliamperage is smooth and stepless, tube is protected automatically if water supply fails, equipment has start-stop pushbutton control, and provision is made for use of automatic exposure timer. The entire design is simplified permitting operation of the apparatus by relatively unskilled personnel.

The slanted panel is indirectly lighted for easy observation and carries, in addition to controls mentioned above, a 0-50 milliampere X-ray current meter, main line switch combined with overload circuit breaker, calibrated peak-kilovoltage selector, and a pilot lamp. There is also

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U. S. Patent Nos. 2,131,374, 2,209,752, 2,209,753, 2,209,754

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an elapsed-time meter (calibrated in hours and tenths of hours) that serves for long exposures and for recording tube life.

The X-ray diffraction unit is designed to be fully shockproof, in operation, thru the enclosure of all high voltage parts. Interlocking switches are provided to prevent the high voltage transformer from being energized when sides of the unit are open. Precision optical-type camera tracks are available as optional equipment. Adjustments and associated locking devices for cameras are positive in action. Tracks and supports can be removed readily, leaving the table top clear for use with special apparatus such as the Weissenberg goniometer.

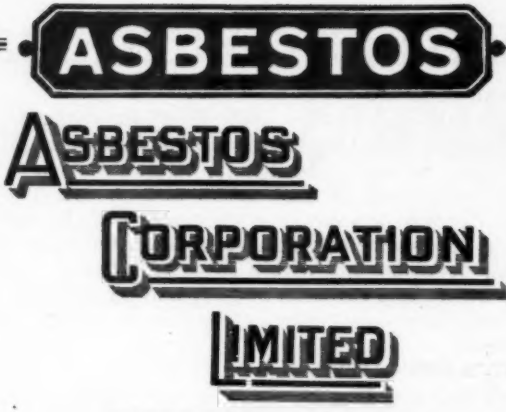
The low-angle-scatter camera is a recent development of the North American Philips organization. Circular powder cameras are also available for use with the Norelco Diffraction analyzer. They are supplied with 57.3 or 114.59 mm. effective diameters. The size of the small camera is such that 1 mm. of separation between diffraction lines on the film corresponds to 1° Bragg angle. On the large camera, 1 mm. between lines on the film corresponds to ½° Bragg angle. Focusing cameras also are available, as well as flat types for both reflected and transmitted X-radiation.

X-ray diffraction is not new in itself. However, utilization of new accessories and techniques now available will undoubtedly make it invaluable by such fields as: ferrous and non-ferrous alloys and their processing, concrete, plastics, asphalt, oil, coal, leather, textiles, ceramics, drugs and chemicals, plywood, porcelain, cables, rubber, food (cheese, ice cream), rope and precious stones.

ASBESTOS TAPE EXEMPT

Specified grades of asbestos tape have been exempted from inventory restrictions and from the limitations on the purchase of maintenance, repair and operating supplies, according to announcement of July 27—WPB Release 8709.

This lifting of restrictions is covered by an amendment to General Inventory Order M-161, and concerns Asbestos tape of .010 and .025 thickness.



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MARKET CONDITIONS

GENERAL BUSINESS

More and more stress is being laid on post-war planning. The end of the war with Japan seems imminent, this idea being strengthened by the announcement of the atomic bomb and its destructive ability. Other events within the past month have occurred with bewildering rapidity. Never before have there been so many world shaking developments within so short a time.

Reconversion, cutbacks in army and navy orders, manpower shortage, and various other factors, rather confuse the outlook.

ASBESTOS-RAW MATERIAL

All grades of asbestos fibres are very much in demand, in fact the mines are running low on shingle fibres and spinning grades are also experiencing large demand. Practically every foreign country has made inquiries or purchased fibre within the last few months. If this demand continues, a shortage can be expected.

We are told that shipments in the Canadian mining field are moving slowly because of the shortage of freight cars.

Stocks of Amosite in this country have been depleted during the past quarter and consumption is running somewhat in excess of present mine production.

ASBESTOS - MANUFACTURED GOODS

Textiles. One of our correspondents tells us that no decline in demand for asbestos textiles has been noted. Production, altho practically constant for the last six months, is at a low rate because of lack of labor. However there has been some easement in the demand for two or three types of asbestos textiles, especially fine tapes. All in all it would seem that the Industry has gone thru the worst of the storm and should shortly begin to catch up on the backlog.

Brake Lining. The market situation in brake lining seems to be about the same as last month.

June sales of friction materials were a little disappointing when compared with the previous five months of

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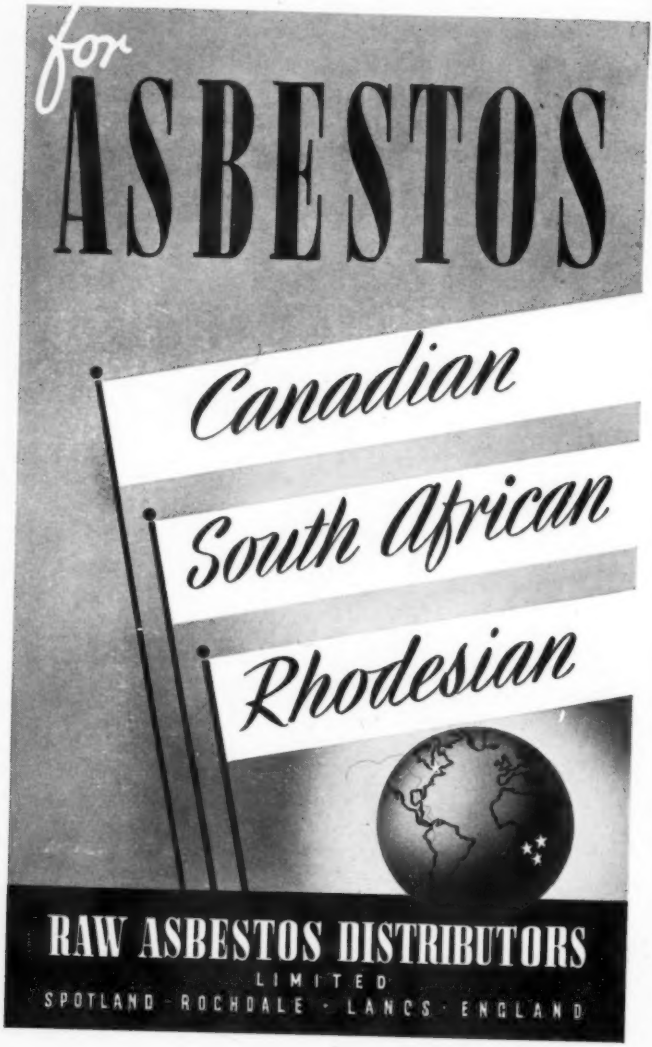
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this year. They not only decreased from May but also from the volume recorded for June 1944. However, due to substantial sales made the earlier part of this year, the total of the first half of 1945 is slightly higher than that in the corresponding period of 1944.

Sales for domestic consumption also were lower but for the to date total were slightly higher than for the six months' period of last year.

Export sales, on the other hand, increased not only over June 1944 but also over May 1945. Canadian sales were lower than usual and decreased both from last June and from May 1945. Sales to Latin America and all other countries approximated the monthly averages since the beginning of 1945

Asbestos Paper. The consensus of opinion appears to be that demand is steady, with prices firm. Manufacturers anticipate good demand for the remainder of the year, perhaps some increase before the year-end.

Asbestos Millboard. We are told that demand for millboard has fallen off within the past sixty days, but prices have not been seriously affected. Heavy demand for this commodity is not anticipated during the remainder of the year.

Insulation. High Pressure. Requirements for high pressure insulation continue at a high level altho the Industry is beginning to experience some slow-down in the receipt of orders and urgent press for deliveries. The cotton textile situation is affecting both this market and that of low pressure insulation. Many insulation manufactu ers have been forced to curtail operations because of the lack of canvas, and whenever possible they supply the pipe covering without the cotton covering.

Insulation. Low Pressure. The requirements in this field are described as very light, mostly ascribable to seasonal decline. Prices are firm. Improvement should come with the fall, altho not as great an increase is expected in fall trade as in normal times.

Asbestos-cement Products. Supply of asbestos shingles and sidings continues inadequate; this is also true of wallboard where demand continues to greatly exceed the sup-

ply. Corrugated also is in heavier demand than can be met at present. Even Asbestos Pipes are showing relatively high demand. Production of all asbestos-cement products is handicapped by the manpower shortage. The short supply is aggravated by a step-up in construction activities, and another factor is the call for large supplies of shingles and corrugated from the European liberated countries, some of which is being and will be supplied by the United States.

The above is compiled from comments and observations of various executives in the Asbestos Industry, who are closely in touch with market conditions. Comments and opinions are always welcome.

NEW TYPE BRAKE BLOCKS

A new, patented Key-Lock Brake Block, claimed to possess quick replacement features, has been announced by Raybestos-Manhattan, Inc. This development is said to have definite advantages over the conventional bolt-type method of attaching brake blocks. It consists of lateral "fishtail" metal strips or keepers in which bolts are inserted, spaced to fit in the brake bands. These keepers slide into fishtail slots cut into the block.

The manufacturer is claiming eight advantages for this Key-Lock Brake Block,—they can be changed quickly as the bolts, bands or shoes never need be removed for relining; there is less danger of springing bands; no deposits of foreign matter in bolt holes; it eliminates scoring; increases area of friction surface; increases holding ability of block to shoe; is adaptable to both internal and external applications; and reduces installation and maintenance costs.

Those interested should write the manufacturer at Passaic, N. J., requesting descriptive bulletin and the new friction material catalog for industrial equipment manufacturers.

. . . —

"I complained that I had no shoes until I met a man who had no feet."—Source unknown.

R. J. DORN COMPANY

MANUFACTURERS OF

ASBESTONE

Corrugated Asbestos-Cement Sheets

ASBESTONE JR.

Jr. Weight Corrugated Asbestos-Cement Sheets

ASBESTONE FLAT WALLBOARD

for Siding and Walls — interior and exterior

FACTORY AND SALES OFFICE—5300 TCHOUPITOULAS STREET,
NEW ORLEANS 15, LOUISIANA

CONTRACTORS AND DISTRIBUTORS PAGE

WAGE RATES FOR PIPE COVERERS

Below are given the wage rates being paid Asbestos Workers (pipe coverers) in the principal cities and insulation centers of the United States.

These rates have been taken from the July 1945 issue of The Asbestos Worker (Official Quarterly Journal of The International Association of Heat and Frost Insulators and Asbestos Workers) and are believed to be uptodate (as of July) and authentic.

Note that rates for Connecticut points are listed under Connecticut and those for Essex and Hudson Counties, N. J., under those Counties, rather than the towns therein.

Akron, O.	$1.62½
*Albany, N. Y.	1.62½
Albuquerque, N. M.	1.50
Allentown, Pa.	1.67½
Amarillo, Tex.	1.62½
Atlanta, Ga.	1.50
Atlantic City, N. J.	1.67½
Austin, Tex.	1.62½
Baltimore, Md.	1.68¾
Baton Rouge, La.	1.62½
Beaumont, Texas	1.62½
Birmingham, Ala.	1.50
Borger, Texas	1.62½
*Boston, Mass.	1.67½
Bridgeport, Conn.	1.56¼
Buffalo, N. Y.	1.75
Cedar Rapids, Ia.	1.50
Charleston, S. C. (Except Navy Yard)	1.50
Charleston, S. C. Navy Yard	1.26
Charleston, W. Va.	1.62½
Charlotte, N. C.	1.37½
*Chicago, Ill.	1.85
*Cincinnati, O.	1.62½
Cleveland, O.	1.62½
Columbia, S. C.	1.50
Columbus, O.	1.62½
Connecticut	1.56¼
Corpus Christi, Tex.	1.62½
Dallas, Tex.	1.62½
Dayton, O.	1.50
Des Moines, Ia.	1.50
*Denver, Colo.	150
*Detroit, Mich.	1.72½
Duluth, Minn.	1.20
*Essex County, N. J.	1.87½
Evansville, Ind.	1.60
*Fort Wayne, Ind.	1.52½
Fort Worth, Tex.	1.62½
Galveston, Tex.	1.62½
Grand Rapids, Mich.	1.52½
Great Falls, Mont.	1.50
Greensboro, N. C.	1.37½
Honolulu, Hawaii	1.58
Houston, Tex.	1.62½
*Hudson County, N. J.	1.87½
Huntingdon, W. Va.	1.62½
Indianapolis, Ind.	1.50
Jackson, Mich.	1.52½
Jackson, Miss.	1.62½
Jacksonville, Fla.	1.50
Juneau, Alaska	1.51½
Kalamazoo, Mich.	1.52½
Kansas City, Mo.	1.62½
Knoxville, Tenn.	1.50
Lansing, Mich.	1.52½
Lawrenceburg, Ind. (Distillery Plant workers only)	1.27
Little Rock, Ark.	1.50
Los Angeles, Calif.	1.50
Louisville, Ky.	1.62½
Madison, Wis.	1.52½

Manitowoc, Wis.	1.52½	Saginaw, Mich.	1.52½
Mare Island Navy Yard Vallejo, Calif.	1.26	Salt Lake City, Utah	1.25
Memphis, Tenn.	1.50	San Antonio, Tex.	1.62½
Miami, Fla.	1.50	San Francisco, Calif.	1.50
Milwaukee, Wis.	1.52½	Savannah, Ga.	1.50
Minneapolis, Minn.	1.58	Scranton, Pa.	1.50
Mobile, Ala.	1.50	Seattle, Wash.	1.64½
Nashville. Tenn.	1.50	Seneca, Ill. (Shipyard only)	1.20
Newport News, Va., (except Navy Yard)	1.43¾	Shreveport, La.	1.62½
New Orleans, La.	1.62½	Sioux City. Ia.	1.50
New York City, N. Y.	2.00	South Bend, Ind.	1.50
Norfolk, Va. (Navy yard only)	1.26	Spokane, Wash.	1.50
Norfolk, Va., (except Navy Yard)	1.43¾	Springfield, Mass.	1.50
Oklahoma City, Olka.	1.62½	Springfield, Mo.	1.50
*Omaha, Neb.	1.55½	St. Louis, Mo.	1.75
Pascagoula, Miss	1.50	St. Paul, Minn.	1.58
Pensacola, Fla.	1.50	Syracuse, N. Y.	1.62½
Philadelphia, Pa.	1.67½	*Tacoma, Wash.	1.58
Phoenix, Ariz.	1.50	Tampa, Florida	1.50
Pittsburgh, Pa.	1.75	*Toledo, O.	1.62½
Port Arthur, Tex.	1.62½	Trenton, N. J.	1.67½
Portland, Me., (Shipyard only)	1.26	Tulsa, Okla.	1.62½
Portland, Ore.	1.51½	Washington, D. C.	1.81½
Portsmouth, Va., (except Navy Yard)	1.43¾	Wausau, Wis.	1.52½
Providence, R. I.	1.50	*White Plains, N. Y.	1.85
Richmond, Va.	1.50	Wichita. Kans.	1.50
Rochester, N. Y.	1.65	Wilkes-Barre, Pa.	1.50
Sacramento. Calif.	1.50	Wilmington, Del.	1.67½
		Wood River, Ill. (Oil Refinery only)	1.29
		York, Pa.	1.50
		Youngstown, O.	1.62½

*Changed since previous list printed in August 1944 "ASBESTOS".

BUILDING

Marked by a pronounced recovery in privately-owned manufacturing building, construction activity in the thirty-seven states east of the Rocky Mountains showed substantial gains in the first half of the year, according to F. W. Dodge Corporation, fact-finding organization of the construction industry.

All major classifications of construction showed gains over the first half of last year except residential building, which was down slightly more than 3 per cent.

The total of all construction contracts awarded in the thirty-seven eastern states during the first six months was $1,482,399,000 compared to $960,221,000 in the corresponding period of last year, a gain of 54 per cent.

NEWS OF THE INDUSTRY

BIRTHDAYS

C. B. Pooler, Vice President, Philip Carey Mfg. Company, Lockland, Cincinnati, Ohio, August 18.

Edward A. Wilson, Jr., Secretary, Grant Wilson, Inc., Chicago, Ill., August 18.

Carl W. Lemmerman, President, Homestead Corporation, Hartford, Conn., August 19.

C. H. Carlough, President, Carolina Asbestos Company, Davidson, N. C., August 20.

P. E. Coombes, Secretary, Cape Asbestos Co., Limited, London, England, August 21.

F. P. Kuchenbecker, President, Asbestos & Magnesia Materials Co., Chicago, Ill., August 23.

H. W. Davis, R. J. Dorn Co., New Orleans, La., August 25.

Theodore O. Dallman, Vice President, Grant Wilson, Inc., Chicago, Ill., August 27.

Matthew Balich, President, Matthew Balich Corp., New York City, August 29.

George Robinson, Secretary, Johnson's Co., Thetford Mines, P. Q., Canada, August 30.

A. W. Swartz, President, Linear Packing & Rubber Co., Philadelphia,Pa., August 31.

E. H. Pierce, Asbestos, Asphalt & Insulation Mfg. Co., Chicago, Ill., September 3.

E. H. Jeffords, of the General Asbestos & Rubber Division, North Charleston, S. C., September 5.

W. D. Pardoe, Vice President, Thermoid Co., Trenton, N. J., September 8.

J. Gillmur Tyson, Jr., Supt. of Production & Sales, Textile Branch, Philadelphia Asbestos Co., Philadelphia, Pa., September 14.

R. J. Berry, President, Standard Asbestos Mfg. Co., Cleveland, Ohio, September 15.

Walter G. Benner, Vice President & General Manager, The Nicely Corporation, Philadelphia, Pa., September 17.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

DUTTON ASBESTOS & SUPPLY CO. *Mason Baxter*, formerly Ship Co-ordinator, has been made Sales Manager of the Dutton Asbestos & Supply Co., succeeding Victor H. Owen, Jr., who has resigned to care for his father's large holdings in ranches and city apartments..

Warren Barnett, formerly owner of the Barnett Construction Co., has joined the Dutton engineering staff.

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% *Magnesia Insulation*

The CAPE ASBESTOS CO. Limited

Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:

ARNOLD W. KOEHLER

415 LEXINGTON AVE. **NEW YORK CITY**

TELEPHONE—VANDERBILT 6-1477

ASBESTOS-CEMENT ASSOCIATES ORGANIZED

Announcement has been made by O. H. Waechter and George Ritter, consulting engineers, of the forming of Asbestos-Cement Associates, Inc., with offices in the Coriell Building, Millington, N. J.

The firm will render complete and confidential engineering service to the Asbestos-Cement Industry, specializing in Hatschek operation, will design and equip complete plants, or give consulting service on manufacturing problems, product and package design.

Mr. Waechter was formerly general superintendent of the Bound Brook, N. J., plant of The Ruberoid Co., and general supervisor of asbestos-cement manufacture for that company. His interest in asbestos-cement production dates back to 1926, when he assisted in the design and construction of the St. Louis plant for Eternit (now the St. Louis plant of The Ruberoid Co.) becoming superintendent of the plant on its completion. He also designed and constructed the other two plants of The Ruberoid Co. at Bound Brook, N. J., and Mobile, Ala.

Mr. Ritter became interested in asbestos in 1924, while assisting in the construction of the Canadian factory of Johns-Manville. On his return to the United States he became works manager for Asbestos Limited, Inc., at Millington, N. J., and in 1933 joined the Ruberoid organization on the general manufacturing department staff, later becoming chief engineer of the company, which position he held at the time of severing his connection with them.

• • • —

W. L. WHITE RETURNS FROM GERMAN TOUR

William L. White, director of research and product design, of The Manhattan Rubber Mfg. Division of Raybestos-Manhattan, Inc., returned recently after spending three months in Europe studying Nazi methods of synthetic rubber production. Mr. White left this country as a member of the Technical Industrial Intelligence Commission, with a group of representatives of the American rubber industry.

The group, operating with a similar British commission, inspected German rubber factories to determine the degree of art reached by the German industry and its synthetic processes.

LAWRENCE E. WHITAKER, until recently Vice President of the Philip Carey Mfg. Company, has resigned to join the B. F. Nelson Mfg. Company, manufacturers of Asphalt Roofing, at Minneapolis, Minn.

IMPROVED WOOL FELT

by

NORRISTOWN

has long been a favorite; its firmness, strength and light weight makes it easy to cut and apply.

One of the many products developed by Norristown in almost fifty years of manufacturing experience.

•

NORRISTOWN
MAGNESIA & ASBESTOS COMPANY
NORRISTOWN PENNSYLVANIA

JOHN P. KOTTCAMP ON SPECIAL MISSION

John P. Kottcamp, vice president of Johns-Manville Corporation and an authority on the manufacture of building materials, has returned to this country from a special industrial mission to Germany for the Foreign Economic Administration, the purpose of which was to study German technique, processes and inventions in the building materials field. The mission lasted from May 10 to July 22.

Mr. Kottcamp has been associated with Johns-Manville since 1924 and has been vice president since 1937. Among his duties he is in charge of the purchasing, traffic and inspection and control departments at all of the company's fifteen plant and mine locations in the United States and Canada.

When selected to make the industrial mission to Germany, he was loaned to the government by Johns-Manville.

THERMOID CHARTS A FORWARD COURSE

The above is the title of a very interesting 32 page book being distributed by the Thermoid Company, telling the story of the company—what it is, what it makes and where its products go in serving America. It is profusely illustrated, attractively planned and printed, and gives much information not covered by its report to stockholders or the catalogs of its various products. We are glad to add this book to our library of asbestos advertising literature.

MANHATTAN RUBBER MFG. DIVISION. As a result of oversubscribing their quota, the largest in Passaic, N. J., in the 7th War Loan Drive, employees of this company were presented with two U. S. Treasury citations and two citation seals which will be placed on a heavy 4-engine bomber and a medium tank, equipment which they are sponsoring. Brake blocks, fuel oil hose and control hoses for the bomber and clutch facings for the tank are made at Manhattan.

At the presentation ceremonies there were present Sgt. Joseph Gemski and Nicholas Dubansky, survivors of a company of 218 men who hit the Normandy Beachhead on D-Day and who have been re-employed by the Manhattan Company.

FRANK M. BIFFEN has been appointed chief of the chemical service section, Johns-Manville Research Laboratory, Manville, N. J. A native of London, Mr. Biffen was for ten years associated with the Government Laboratory in that city. Prior to his joining Johns-Manville in October 1944, he was director of the analytical laboratories of Foster D. Snell, Inc.

Mr. Biffen is a graduate of University College, London, a Fellow of the Royal Institute of Chemistry of Great Britain and Ireland, and a member of the American Chemical Society.

CAROLINA ASBESTOS COMPANY

CUSTOM MANUFACTURERS
OF
ASBESTOS TEXTILE PRODUCTS

CAROLINA ASBESTOS TEXTILES

ARE COMPLETELY ENGINEERED FOR MODERN REQUIREMENTS IN THE MANUFACTURE OF SAFETY-CLOTHING, ELECTRICAL HEATER-CORDS, DRYER-FELTS, PLASTICS AND MANY OTHER PRODUCTS REQUIRING THE USE OF ASBESTOS TEXTILES.

ASBESTOS YARN — CORD — CLOTH
ASBESTOS ROVING — TUBING — WICKING
ASBESTOS CARDED FIBRES — LISTING TAPES
OIL BURNER WICKING

CAROLINA ASBESTOS COMPANY

EXECUTIVE OFFICES:
DAVIDSON, N. C.

FACTORIES:
DAVIDSON, N. C.
MARSHVILLE, N. C.

CAPE ASBESTOS COMPANY LIMITED report a new profit for the year ending December 31, 1944, of £150,678, compared with £115,250 in 1944 (see page 34 of September 1944 "ASBESTOS" for 1943 report.)

The increase in profit in 1944 over 1943 is mainly due to increased dividends received from the Company's Amosite mining subsidiary company, Egnep, Limited.

The annual meeting was held on June 29, 1945, at which time a final dividend of 15% on both classes of shares was declared, thus restoring the distribution to the pre-war maximum of 17½%.

A copy of the balance sheet follows:

ASSETS

	£	s.	d.
Cash on deposits, current accounts and cash in hand	131,434	11	7
Investments in Br. Government Securities at Cost	75,000	0	0
Tax Reserve Certificates	65,600	0	0
Bills Receivable	1,541	0	6
Sundry Debtors less Reserves	116,552	8	5
Amounts due by Subsidiary Companies	11,409	16	7
Stock of Crude and Mfd. Asb. Goods in Gt. Britain, S. Africa, in transit, less reserves	289,854	8	11
Holdings in Sub. Companies at Cost less amts. written off	55,116	13	2
Investments in other Cos. at Cost less amts. written off	5,064	18	9
Freehold Land and Factories in England at cost less depre.	60,901	0	0
Leasehold Properties and Bldgs. in England at cost less depre.	2,650	0	0
Asbestos Estates in S. Africa, at cost, less depre.	73,463	8	11
Machinery, Plant, etc., at cost less depre.	79,000	14	9
Assets in Italy as they existed prior to outbreak of War	62,821	16	8
	£1,030,410	18	3

LIABILITIES

Capital Account Auth. 150,000 Ord Shares at £1 ea.) 150,000 Cum. 5% Part. Pref. £1 ea.)	300,000	0	0
General Reserve—per last Account plus premium on shares	200,000	0	0
Mining and Contingencies Reserve	110,000	0	0
General Benefit and Compensation Fund	23,206	1	7
Creditors—Trade and Other Accounts	55,438	18	5
Provision for Taxation	135,954	4	4
Amounts due to a Subsidiary Co.	96,192	9	11
Div. ends paid Jan. 8th, 1944 and Final Div. now proposed	60,000	0	0
Unappropriated Balance	49,619	4	0
	£1,030,410	18	3

JOHNS-MANVILLE reported for the second quarter of 1945 (ending June 30) sales of $23,718,253, compared with $25,308,721 in the same period in 1944.

Earnings in the second quarter, after all taxes, were $1,463,016, compared with $1,242,194 in 1944.

For the six months ended June 30, 1945, sales were $46,187,970, compared with $49,759,262 for the same period in 1944; earnings for the first half of 1945 were $2,858,614, compared with $2,693,759 for the first half of 1944.

Earnings equal a profit per common share of $3.36 for the first half of 1945; $3.12 for the first half of 1944.

BEHRE DOLBEAR & CO. has been formed by Samuel H. Dolbear and Charles H. Behre, Jr., consultants in the mineral industries, mining, metallurgy, and geology, with offices at 11 Broadway, New York 4, N. Y., and 704 S. Spring St., Los Angeles 14, Calif. Dr. Behre is a professor of economic geology in the department of geology at the Columbia University in New York. Mr. Dolbear is a well-known consulting engineer in the United States and abroad. The new firm, whose associates include H. Foster Bain, W. F. Boericke, J. F. Geary, G. A. Joslin, C. C. Morfit, Walter A. Rukeyser and Herbert Waterman, is especially qualified to handle foreign assignments, the members and associates having done work in 20 foreign countries, both in private enterprise and government service.—From Mining Journal of Phoenix, Ariz.

THE ANCHOR PACKING COMPANY announces that B. B. Reagan, formerly of their Cleveland Branch, is now manager at 230 E. Ohio St., Chicago, Ill.

ARTHUR W. BYXBEE on July 1st became Assistant Sales Manager of the Textile Department of Raybestos-Manhattan, Inc., with headquarters at Manheim, Pa. J. A. Bettes, Jr., is Sales Manager of the department.

Mr. Byxbee was recently released from the Army Air Corps, having served for over three years, 26 months of which were spent overseas. He was New York Manager for the Industrial Sales Division of Raybestos-Manhattan, Inc., from 1938 until August of 1941, when he was lent to the O. P. M., where he served in the Asbestos Section until March of 1942.

WALTER E. HESS has been appointed manager of the Roofing Department, of The Philip Carey Mfg. Company of Concinnati. He was formerly a member of Carey's Albany, N. Y., staff and brings much building-product merchandising experience to his new post because of his 16 years' association with Carey products as a general line salesman, special representative to a distributor, and manager of a wholesale service supply company. He is well known among dealers in New York State.

MANHATTAN RUBBER MFG. DIVISION. Prizes were awarded recently in the Victory Garden project sponsored by the company, almost 400 gardens being inspected and judged on the 10½ acre tract. the largest industrial garden project in the State of New Jersey. This is the third consecutive year the project has been in operation.

The grand prize winner was George Kevitt, who received a $25.00 War Bond (donated by Harry E. Smith, General Manager of The Manhattan Division). There were ten first prize winners who each received $10.00 in War Stamps; second prize pennants were awarded to 37 additional gardeners and 42 received honorable mention. Morris G. Fitts, Manhattan's oldest employee, who has been with the company 51 years, was among the winners of the first prizes.

JOHNS-MANVILLE CORPORATION. Holders of common stock of Johns-Manville Corporation at a special meeting on July 17th, authorized creation of a new issue of 170,000 shares of 3½ Cumulative Preferred Stock of $100 par value, convertible into common stock. They also authorized increase of common stock from 1,000,000 shares to 1,500,000.

The new preferred stock will be offered to common stockholders of record at the close of business Saturday, July 21, 1945, for cash at par ($100) on the basis of one share of preferred stock for each five shares of common stock. Warrants evidencing subscription rights will expire at noon on Saturday, August 4, 1945; and it is anticipated they will be traded in on the New York Stock Exchange between July 23rd and the expiration date. The preferred stock will be convertible into common stock on a share for share basis at any time prior to August 1, 1955, upon payment of $15 for each share converted.

THE ROCKBESTOS PRODUCTS CORPORATION, manufacturers of heat and flame resistant wires and cables, were recently notified of their third winning of the Army-Navy "E" award. Their flag now contains three stars.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 10c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date issued, name of patentee and name of invention.

Roofing Compound. No. 2,377,927. Granted on June 12, 1945 to Charles M. Evans, Shaker Heights, Ohio. Assignor to Master Mechanics Co., Cleveland. Application August 5, 1942. Serial No. 453,754.

A liquid roof surface compound comprising about one part of a resinous mixture consisting of 5.11 parts of para-coumarone indene, 5.11 parts of rosin modified phenol-formaldehyde resin, 17.02 parts of mineral asphalt having a melting point of about 300° F., 2.11 parts of mineral asphalt having a melting point of about 200° F., 17.02 parts of drying fish oil and about 50.00 parts of naptha and about 9 parts of a bituminous mixture consisting of 90.7 parts of liquid petroleum asphalt and 9.3 parts of asbestos fibre.

Expansion Means. No. 2,378,214. Granted on June 12, 1945 to Christian Gottwald, Cleveland Heights, Ohio. Assignor to RicwiL Company, Cleveland. Application June 10, 1942. Serial No. 446,449. Description upon request.

Air Conduit. No. 2,378,272. Granted on June 12, 1945 to Laurence E. Whitaker, Wilmington, Ohio. Assignor to Philip Carey Mfg. Company. Application June 13, 1942. Serial No. 446,921.

An air conduit adapted to be shipped flat and assembled on the job, comprising sections having a plurality of fire resistant side pieces provided with longitudinal edges in contiguous relation, a flexible joint covering member for holding the said pieces together, and a waterproof, self-setting adhesive, applied to the longitudinal edges and the side pieces when the commodity is assembled for bonding and sealing the joints between the side pieces when said side pieces are folded in conduit form.

Friction Linings. No. 2,379,166. Granted on June 26, 1945 to David E. Lucid, Dayton, Ohio. Assignor to General Motors Corporation, Detroit, Mich. Application November 4, 1943. Serial No. 508,952.

The steps in the method of making a friction lining from a fibre-containing compound having an oil-modified thermosetting resin as a binder, comprising; first mixing together the fibre ingredient with soft, finely divided dry filler ingredients of the compound to form a dry batch, dampening said dry batch throughout by the addition of a volatile petroleum naptha, then adding thereto an oil-modified liquid thermosetting resin and kneading the resulting comglomerate until the entire mixture becomes a plastic tacky mass of suitable consistency for die extrusion, extruding said plastic tacky mass thru a die to form a slab, then evaporating the naptha from said extruded slab at a temperature insufficient to cause a setting up of the thermosetting resin and subsequently compacting and at least partially curing said dry slab material under heat and pressure.

Pipe Coupling. No. 2,379,990. Granted on July 10, 1945 to Ernest Wayne Rembert, Plainfield, N. J., assignor to Johns-Manville Corp. Application September 19, 1942. Serial No. 458,925.

A rigid pipe coupling assembly comprising a pipe section having an end portion smoothly tapered to have a minimum diameter at the end of the pipe, a tubular sleeve surrounding said tapered end portion, a liner in said sleeve composed of a hardened, yieldably plastic material and having a pre-formed taper complementary to said tapered end portion and in close sealing contact therewith, said liner terminating in a thin edge adjacent the end of the sleeve whereby said plastic liner resists blowing upon application of pressure from within said pipe.

TEST

. . . the added sales volume awaiting you among the nation's roofing and siding contractors. Write to . . .

AMERICAN ROOFER and SIDING CONTRACTOR
425 Fourth Avenue, New York City

THIS and THAT

BUILDING INSULATION. A second edition of this book by Paul D. Close has recently been published. It covers quite comprehensively the subject of building insulation, including chapters on pipe and duct insulation, sound insulation, machinery insulation.

It contains a large number of graphs and tables and is designed to be useful and of practical value to the architect or engineer, the manufacturer, dealer and to the consumer who may be contemplating the construction of a new house or the remodeling of an old one. Price is $3.50. It is cloth bound and contains 328 pages. Can be ordered from "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.

. . . —

The National Research Bureau, Inc., 415 N. Dearborn St., Chicago, 10, Ill., in its technical "Digest-Index" will include Master Theses of Technical Schools and Universities, which are of importance to Industry and Research, and which have previously been buried in the many departments of these schools and universities.

. . . —

Japan is hard to get at. Our nearest large harbor is in the Philippine Islands, 1700 miles from Tokyo. Tokyo is 1500 miles from Guam and Saipan, which are 5000 miles from Hawaii, and Hawaii is as far from San Francisco as London is from New York. *The War—Phase Two.*

. . . —

"Many people will see little to remark in either the orderly continuance of governmental processes or the manifestations of unity, since in this country nothing else was to be expected", comments the National City Bank letter for May.

. . . —

Hardware valued at approximately $60,000,000 will be needed to meet the demands of 1945 construction activities, estimated at between $4,000,000,000 and $5,000,000,000, according to the Hardware Advisory Committee of the War Production Board.—*WPB Release No. 8389.*

ASBESTOS IRONING BOARD COVER. Ironing board covers that will not burn are one of the first new peacetime products to come out of the war.

The covers are made of Asbeston, the fabric developed by the United States Rubber Company for the especial purpose of making fire fighting suits for the Army and Navy. Material for the covers is now available in very limited quantities. The bulk of equipment and manpower of the U. S. Rubber Company are, of course, devoted to war production at present.

It is claimed that the new cover will not burn if a housewife inadvertently leaves an iron on the board, and we understand that the cover has better wearing qualities than the cotton cover because of the asbestos fibre used in its construction.

BOOK LIST

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy, discount in quantities of 50 or more.

The Asbestos Factbook. 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c per copy.

Canadian Chrysotile Asbestos Classification. (Reprint) 25c per copy.

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas. $1.00 per set.

Manual of Unit Prices (for figuring pipe covering and blocks) 30c per copy postpaid.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy

Tests for Cotton Content. 4 pages. (Reprint) Describing several methods of testing asbestos textiles for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each

Asbestos: The Magic Mineral, by Lilian Holmes Strack. Written especially for school children but every Asbestos Library should have a copy. $1.00 per copy.

Order any of the above from "ASBESTOS", 17th Fl., Inquirer Bldg., Philadelphia, 30, Pa.

WANTED

Winding Machines for Air Cell and Wool Felt Covering. Standard Asbestos Mfg. Company, 820 W. Lake St., Chicago, 7, Ill.

ESTIMATOR - SALESMAN

For Connecticut territory—permanent. Salary open. Asbestos Distributors, Inc., Bridgeport, Conn. (Contact New York Office, 150 Pearl St., Port Chester, N. Y.)

CURRENT RANGE OF PRICE

As of August 10, 1945

Canadian—	Per Ton (2000 lbs.) f.o.b. Mine (In U. S. Funds)		
Group No. 1 (Crude No. 1)	$650.00	to	$750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry)	165.00	to	385.00
Group No. 3 (Spinning or Textile Fibre)	124.00	to	260.00
Group No. 4 (Shingle Fibre)	62.50	to	90.00
Group No. 5 (Paper Fibre)	44.00	to	53.00
Group No. 6 (Waste, Stucco or Plaster)	33.00	to	35.00
Group No. 7 (Refuse or Shorts)	14.50	to	30.00

Vermont—	Per Ton (2000 lbs.) f.o.b. Hyde Park, Vt.		
Shingle Stock Fibres	$62.50	to	$65.50
Paper Stock Fibres	44.00	to	54.00
Waste			33.00
Shorts	14.50	to	28.50
Floats			19.50

Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness).

	Par	July 1945 Low	High	Last
Armstrong Cork Co. (Com.)	np	42¼	46¼	43
Asbestos Corp. (Com.)	np	25⅛	26¼	25½
Celotex (Com.)	np	15½	16⅞	16⅛
Celotex (Pfd.)	20	20	21¼	21
Certainteed (Com.)	1	9¾	11¾	11¾
Certainteed (Pfd.)	100	158	163	163
Flintkote (Com.)	np	27⅛	29¾	28⅝
Flintkote (Pfd.)	np	105½	110	109
Johns-Manville (Com.)	np	113	122½	115½
Johns-Manville (Rights)		3⅛	5⅛	3⅝
Raybestos-Manhattan (Com.)	np	33¼	36½	36¼
Ruberoid (Com.)	np	35	38½	36
Thermoid (Com.)	1	10½	12	11⅛
Thermoid (Pfd.)	10	53	56	54¼
U. S. Gypsum (Com.)	20	86½	92½	88¼
U. S. Gypsum (Pfd.)	100	189½	193	193
U. S. Rubber (Com.)	10	52	58½	54¾
U. S. Rubber (Pfd.)	100	160	170½	164

ASBESTOS TEXTILES

IT'S A HABIT

THE DEMANDS OF WAR-TIME PRODUCTION ACT AS A STIMULUS TO RESEARCH ABILITY AND CALL FOR THE UTMOST IN MANUFACTURING TALENT. THE TEMPO OF DEVELOPING AND PRODUCING VARIOUS ASBESTOS PRODUCTS TO EXACT MILITARY SPECIFICATIONS, IS A MANUFACTURING "HABIT" NOW AT **RAYBESTOS-MANHATTAN, INC.** IT'S A "HABIT" WHICH WILL BE APPLIED TO THE PRODUCTION OF A VARIED LINE OF PRODUCTS OFFERED TO THE POST-WAR INDUSTRIAL FIELD.

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INDUSTRIAL SALES DIVISION

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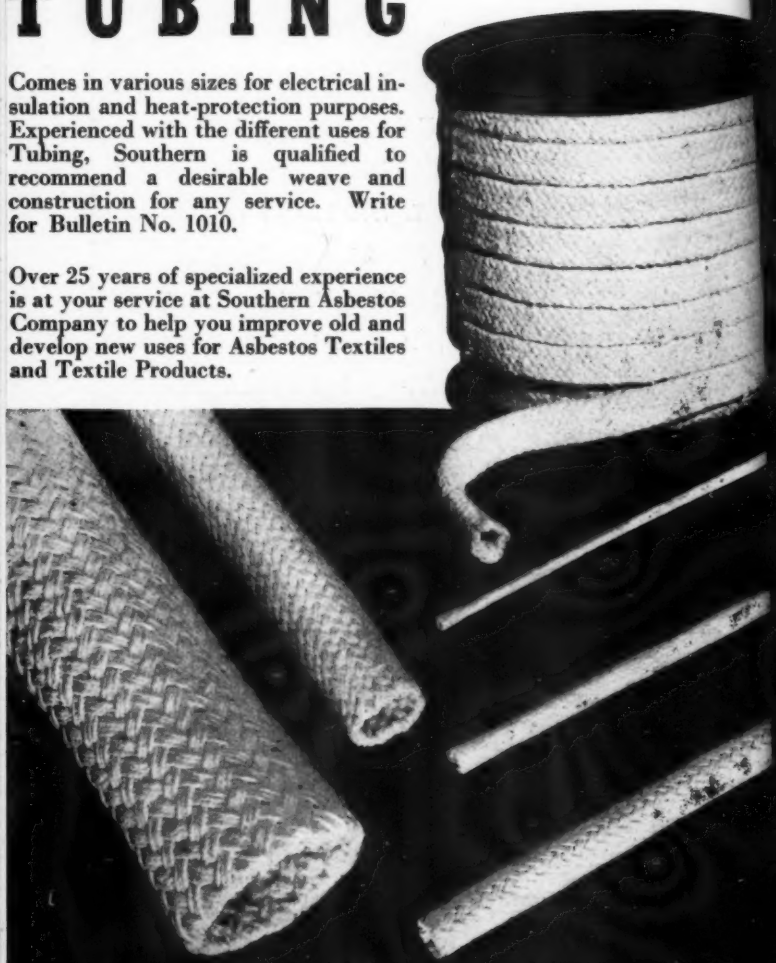

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